



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Satoko Shitagaki et al. Art Unit : Unknown
Serial No. : 10/706,291 Examiner : Unknown
Filed : November 13, 2003 Confirmation No.: Unknown
Title : QUINOXALINE DERIVATIVES, ORGANIC SEMICONDUCTOR DEVICE
AND ELECTROLUMINESCENT DEVICE (AS AMENDED)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicant submits the references listed on the attached form PTO-1449. A copy of a communication from a foreign patent office in a counterpart application is also enclosed.

Submitted herewith is an English translation of the following foreign language references, or portions thereof:

| Desig. ID | Source |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------|
| AE | CH 599569: In English, family to US 3,765,898 (Desig. ID "AA") |
| AF | JP 05 22218: English abstract, File 352, Derwent WPI, Accession No. 009615701, (2004) |
| AG | JP 09 188874: In English abstract, File 353, Derwent WPI, Accession No. 011442799 (2004) |
| AH | JP 54 005293: English, File 345, Inpadoc/Fam.& Legal Stat (2004), Accession No. 3119289 (2004) and family to US 4,286,479 (Desig. ID "AB") |
| AI | JP 64 057261: English abstract, File 352, Derwent WPI, Accession No. 007845735 (2004) |
| AJ | JP 64 063971: English abstract, File 353, Derwent WPI, Accession No. 007853259 (2004) |
| AK | JP 2003 040873: English abstract, File 353, Derwent WPI, Accession No. 015222228 (2004) |
| AL | WO 02/094796 A2: In English |

This statement is being filed before the receipt of a first Office action on the merits.

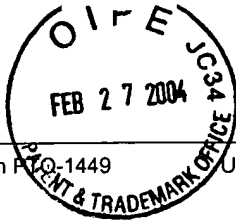
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Respectfully submitted,

Date: 2/27/04


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| Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b)) | U.S. Department of Commerce Patent and Trademark Office | Attorney's Docket No. 12732-174001 | Application No. 10/706,291 |
| | Applicant Satoko Shitagaki et al. | | |
| | Filing Date November 13, 2003 | Group Art Unit | |

| U.S. Patent Documents | | | | | | | |
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| Examiner Initial | Desig. ID | Document Number | Publication Date | Patentee | Class | Subclass | Filing Date If Appropriate |
| | AA | 3,765,898 | 10/16/73 | Bauer, et al. | | | |
| | AB | 4,286,479 | 09/01/81 | Baumann, et al. | | | |
| | AC | 6,482,949 | 11/19/02 | Sessler, et al. | | | |
| | AD | 2003/0162960 | 08/28/03 | Sessler, et al. | | | |

| Foreign Patent Documents or Published Foreign Patent Applications | | | | | | | | |
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| Examiner Initial | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation | |
| | | | | | | | Yes | No |
| | AE | CH 599569 | 05/31/78 | Switzerland | | | ABS | |
| | AF | JP 05 222181 | 08/31/93 | Japan | | | ABS | |
| | AG | JP 09 188874 | 07/22/97 | Japan | | | ABS | |
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| | AI | JP 64 057261 | 03/03/89 | Japan | | | ABS | |
| | AJ | JP 64 063971 | 03/09/89 | Japan | | | ABS | |
| | AK | JP 2003 040873 | 02/13/03 | Japan | | | ABS | |
| | AL | WO 02/94796 A2 | 11/28/02 | PCT/WIPO | | | English | |

| Other Documents (include Author, Title, Date, and Place of Publication) | | |
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| Examiner Initial | Desig. ID | Document |
| | AM | International Application No. PCT/JP03/13764 Search and Examination Report dated 12/09/03. |
| | AN | Alkhathlan, et al., "Spectroscopic Studies of Benzimidazole, Quinoxaline and Quinoline Derivatives", <u>Journal of Chemical Research Synopses</u> , No. 1, pp. 10-11 (1995) |
| | AO | Alkhathlan, et al., "Spectroscopic Studies of Benzimidazole, Quinoxaline and Quinoline Derivatives", <u>Journal of Chemical Research (M)</u> , pp. 201-220 (1995) |
| | AP | Chemical Abstract, Vol., 55; pp. 1961-1962 (19934I-19935A-C) |
| | AQ | Cohen, et al., "New Polyheterocyclic 4n π -Electron Dianions: Paratropicity, Charge Delocalization, and Reactions", <u>Journal of the American Chemical Society</u> , Vol. 108/No. 22, pp. 7039-7044 (1986) |
| | AR | Guldi, et al., "Intramolecular Energy Transfer in Fullerene Pyrazine Dyads", <u>Journal of Physical Chemistry A</u> , Vol. 102/No. 48, pp. 9679-9685 (1998) |
| | AS | Schürmann, et al., "Ultraviolet Photoelectron Spectroscopic Study of Heterocyclic Model Compounds for Electroluminescent Devices", <u>Synthetic Metals</u> , Vol. 102, pp. 1069-1070 (1999) |

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| Examiner Signature | Date Considered |
| EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | |